AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A linear image sensor comprising:

~~at least one~~a photodiode array; and

a shutter structure provided parallel to the photodiode ~~arrays~~array, the shutter structure including: a shutter drain and a shutter ~~electrode~~gate provided between said photodiode array and said shutter drain, said shutter ~~electrode~~gate being continuously extended beyond said shutter drain on a side of said shutter drain opposite to said photodiode array.

2. (currently amended): A linear image sensor according to claim 1, wherein an upper portion of the shutter drain is covered with the shutter gate ~~electrode~~.

3. (currently amended): A linear image sensor according to claim 1, wherein the ~~number of the photodiode array is set to only one~~linear image sensor includes only a single photodiode array.

4. (currently amended): A linear image sensor according to claim 1, wherein said photodiode array is a first photodiode array and the linear image sensor further comprises a second photodiode array, wherein the shutter structure is provided between the first and second photodiode arrays.

5. (currently amended): A linear image sensor comprising:

a photodiode array;

a readout gate provided parallel to the photodiode array on one side of the photodiode array;

a CCD shift register provided parallel to the readout gate;

an output circuit provided for output from the CCD shift register; and

a shutter structure provided parallel to the photodiode array on the other side of the photodiode array, the shutter structure including: a shutter drain and a shutter ~~electrode~~gate provided between said photodiode array and said shutter drain, said shutter ~~electrode~~gate further continuously extending across said shutter drain.

6. (currently amended): A linear image sensor according to claim 5, wherein an upper portion of the shutter drain is covered with the shutter gate ~~electrode~~.

7. (previously presented): A linear image sensor comprising:

a photodiode array pair provided parallel to each other;

a shutter gate electrode that is provided parallel to the photodiode array pair so as to be common to the photodiode array pair; and

a shutter drain that is provided below the shutter gate electrode;

wherein said shutter electrode is provided between each of said photodiode array pair and said shutter drain, said shutter electrode extending to directly above said shutter drain so that said shutter gate electrode becomes a single shutter gate electrode.

8. (original): A linear image sensor according to claim 7, wherein an upper portion of the shutter drain is covered with the shutter gate electrode.

9. (withdrawn): A linear image sensor according to claim 7, wherein:

three pairs of the photodiode array pair are provided parallel to one another; and

each photodiode array pair includes one of color filters having different colors that are RGB.